US ERA ARCHIVE DOCUMENT

EEE BRANCH REVIEW

DATE: INOUT	INOUT IN_4/5/780UT_4/7/78
	ENVIRONMENTAL CHEMISTRY EFFICACY
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FILE OR(REG. NO.)	100-LOT
PETITION OR EXP. PERMIT NO.	
DATE DIV. RECEIVED	3/1/78
DATE OF SUBMISSION	
DATE SUBMISSION ACCEPTED	
TYPE PRODUCTS(S): I, D, (H,) F, N, R, S <u>Herbicide</u>
DATA ACCESSION NO(S).	232943 - 232948
PRODUCT MGR. NO.	24 - Henry Jacoby
PRODUCT NAME (S)	Dual 8E
COMPANY NAME	Ciba-Geigy
SUBMISSION PURPOSE New pr	oduct registration for use on corn excluding
popcor	n. Data also submitted in support of future soybeans.
CHEMICAL & FORMULATION	metolachlor: 2-chloro-N-(2-ethyl-6-
	methylphenyl)-N-(2-methoxy-l-methylethyl) 86.4
	(8#ai/gallon)

200.0 Introduction:

200.1 Uses:

Registration of Dual 8E for use on corn grown for grain excluding popcorn. Data also submitted in support of future Dual 8E on soybeans use.

200.2 Background Information:

Not a deletion. Thus item is crossed out on the original Dual 6E is presently registered for use on corn grown for grain exluding popcorn (Reg. No.: 100-583). Ciba-Geigy is now requesting registration of Dual 8E based on bridging data showing comparable biological activity at comparable #ai/A between Dual 6E and Dual 8E. The only differences between the two formulations are: (1) the Dual 8E has a higher percentage (a...) of technical metolachlor than Dual 6E. (2) 8E has a higher percentage

equivalency of Dual 6E and Dual 8E was noted by EEEB in previous experimental use permit reviews on corn and sorghum submitted 11/4/77. The proposed Dual 8E label on corn is identical to the Dual 6E corn label. Proposed rates are identical in #ai/A.

201.0 Data Summary

201.1.1 Brief Description of Data Submitted

Bridging efficacy, crop injury and yield data were submitted comparing Dual 6E performance with Dual 8E performance in corn and soybeans. PPI and preemergence Dual 8E and Dual 6E treatments were compared in the field. Comparable biological activity was noted from direct comparisons of Dual 8E and Dual 6E applied in fluid fertilizer carriers on corn and soybeans. The following liquid fertilizers 20-0-0, 32-0-0, 7-21-7, 28-0-0. Further, were used: Dual 8E applied PPI or preemergence in water was found biologically comparable to Dual 8E applied PPI or preemergence in fluid fertilizer. Compatability data were referenced and submitted in support of Dual 8E combinations with fluid fertilizers and other herbicides.

201.1.2 Data Summaries

Refer to EEEB files for data summaries.

202.0 Conclusions:

202.1 Claims Supported by the Data Submitted and Referenced;

- a. Efficacy, crop injury and yield bridging data submitted will support comparable biological performance between Dual 6E and Dual 8E applied PPI or preemergence at comparable #ai/A on corn and soybeans.
- b. Tank mix compatability data referenced and submitted will support the following combinations:

- 1. Dual 8E plus fluid fertilizers (32-0-0, 10-34-0, 7-21-7, 10-10-10)
- 2. Dual 8E plus AAtrex 80W, 4L, 4LC and Nine-0
- 3. Dual 8E plus AAtrex 80W, 4L, 4LC and Nine-0 plus fluid fertilizers (32-0-0, 10-34-0, 7-21-7, 10-10-10)
- 4. Dual 8E plus Sencor or Lexone 50W or 4L
- 5. Dual 8E plus Banvel 4S plus fluid fertilizers (28-0-0, 10-10-10)
- 6. Dual 8E plus Bladex
- 7. Dual 8E plus fluid fertilizers (10-34-0, 7-21-7, 10-10-10). Dual 8E plus Bladex plus 28-0-0 were not compatable.

soybeans (Maximum recommended tank mix rate in minimum recommended spray volume)

1. Dual 8E plus Sencor or Lexone (50W of 4L)

All of the above mentioned tank mixes were compatable with agitation.

203.0 Label Comments to be Resolved Prior to Registration;

1. On the proposed Dual 8E label on page 7, last paragraph; the last sentence must be revised to include the following . . . the tank mixture "after bed formation. Preemergence: Apply the tank mixture" to the soil surface. . .

204.0 Comment to Ciba-Geigy concerning data in our files but not affecting this submission for Dual 8E registration on corn:

a. EEEB has no record of compatability data for Dual 8E plus Lorox 50W in water for use on corn. These compatability data are referenced by Ciga-Geigy as having been submitted 11/4/77 in support of their EUP for use of Dual 8E on corn.

INFORMATION CAN BE FOUND IN ACCESSION # 232194

PAGE 79. THIS INFORMATION WAS REVIEWED BY

4-27-78 AND FEUND ALLEPTABLE DYD. A.

Comment:

The proposed use of Dual 8E on corn excluding popcorn will be acceptable after resolution of 203.0 above.

RIC PETRIE

Richard C. Petrie

Room 315-B

EEEB